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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	09/720,384
Filing Date	December 21, 2000
First Named Inventor	Saverio Carl Falco et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1167B US PCT

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PTB	1.	FRANK W. SMITH ET AL., PNAS, vol. 92:9373-9377, 9/1995, Plant Members of a Family of Sulfate Transporters Reveal Functional Subtypes	✓
	2.	ANGELO BOLCHI ET AL., Plant Mol. Biology, vol. 39:527-537, 1999, Coordinate Modulation of Maize Sulfate Permease and ATP Sulfurylase mRNAs in Response to Variations in Sulfur Nutritional Status: Stereospecific Down-Regulation by L-Cysteine	✓
	3.	AMIT SETYA ET AL., PNAS, vol. 93:13383-13388, 11/96, Sulfate Reduction in Higher Plants: Molecular Evidence for a Novel 5'-adenylylsulfate Reductase	✓
	4.	KEIKO YONEKURA-SAKAKIBARA ET AL., J. Biochem., vol. 124:615-621, 1998, Molecular Characterization of Tobacco Sulfite Reductase: Enzyme Purification, Gene Cloning, and Gene Expression Analysis	✓
	5.	KAZUKI SAITO ET AL., J. Biol. Chem., vol. 270(27):16321-16326, 7/7/1995, Molecular Cloning and Characterization of a Plant Serine Acetyltransferase Playing a Regulatory Role in Cysteine Biosynthesis from Watermelon	✓
	6.	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2832300, 8/10/98, ARZ, H.E., A cDNA for Adenylyl Sulphate (APS)-kinase from Arabidopsis Thaliana	✓
	7.	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1076283, 12/7/99, ARZ, H.E. ET AL., A cDNA for Adenylyl Sulphate (APS)-kinase from Arabidopsis Thaliana	✓
	8.	HILDEGARD E. ARZ ET AL., Biochimica et Biophysica Acta, vol. 1218:447-452, 1994, A cDNA for Adenylyl Sulphate (APS)-kinase from Arabidopsis Thaliana	✓
	9.	JULIE ANN BICK ET AL., Current Opinion in Plant Biol., vol. 1(3):240-244, 6/1998, Plant Sulfur Metabolism - the Reduction of Sulfate to Sulfite	✓
	10.	SANDRA SCHIFFMANN ET AL., FEBS Letters, vol. 355:229-232, 1994, APS-Sulfotransferase Activity is Identical to Higher Plant APS-kinase	✓
	11.	AJAY JAIN ET AL., Plant Phys., vol. 105:771-772, 1994, A cDNA Clone for 5'-Adenylylphosphosulfate Kinase from Arabidopsis Thaliana	✓

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Signature

Phuong Boi

Date

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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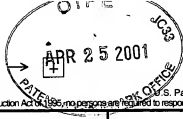
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PTB	1	SENTA HEISS ET AL., Plant Molecular Biology, vol. 39:647-657, 1999, Cloning sulfur assimilation genes of Brassica juncea L.: cadmium differentially affects the expression of a putative low-affinity sulfate transporter and isoforms of ATP sulfurylase and APS reductase	✓
	1	JOHN L. WRAY ET AL., Chemo-Biological Interactions, vol. 109:153-167, 1998, Redefining reductive sulfate assimilation in higher plants: a role for APS reductase, a new member of the thioredoxin superfamily?	✓
	1	JULIE ANN BICK ET AL., Current Opinion in Plant Biology, vol. 1(3):240-244, 1998, Plant sulfur metabolism - the reduction of sulfate to sulfite	✓
	1	JULIE-ANN BICK ET AL., PNAS, vol. 95:8404-8409, 1998, Glutaredoxin function for the carboxyl-terminal domain of the plant-type 5'-adenylylsulfate reductase	✓
	1	JOSE F. GUTIERREZ-MARCOS ET AL., PNAS, vol. 93:13377-13382, 11/1996, Three members of a novel small gene-family from Arabidopsis thaliana able to complement functionality an Escherichia coli mutant defective in PAPS reductase activity encode proteins with a thioredoxin-like domain and "APS reductase" activity	✓
	1	AMIT SETYA ET AL., PNAS, vol. 93:13383-13388, 11/1996, Sulfate reduction in higher plants: Molecular evidence for a novel 5'-adenylylsulfate reductase	✓
	1	EMBL SEQUENCE LIBRARY DATA ACCESSION NO. C27405, 08-06-1997, SASAKI, T. ET AL., Rice cDNA from callus, XP-002121812	✓
	1	EMBL SEQUENCE LIBRARY DATA ACCESSION NO. a1071890, 06-29-1998, mbegueu-A-mbegueu d. et al., Molecular cloning and partial nucleotide sequence of a sulfite reductase from apricot fruit, XP-002128211	✓
	1	EMBL SEQUENCE LIBRARY DATA ACCESSION NO. D50679, 12-01-1997, IDEGUCHI, T. ET AL., cDNA cloning and functional expression of ferredoxin-dependent sulfite reductase from maize in E. coli cells, XP-002128212	✓
	1	EMBL SEQUENCE LIBRARY DATA ACCESSION NO. O23813, 01/01/96, IDEGUCHI, T. ET AL.	✓
	1	CHRISTIANE BORK ET AL., Gene, vol. 212:147-153, 1998, Isolation and characterization of a gene for assimilatory sulfite reductase from Arabidopsis thaliana	✓

Examiner Signature

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Date Considered

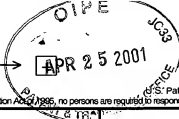
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FB		ANDREAS BRUHL ET AL., Biochimica et Biophysica Acta, vol. 1295:119-124, 1996, A cDNA clone from Arabidopsis thaliana encoding plastidic ferredoxin: sulfite reductase	
		DATABASE WPI, DERWENT PUBL., LTD., JP-62 455773, MITSUBISHI CORP., 9/6/94, XP-002121814	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: AU068082, 06/07/99, SASAKI, T. ET AL., Rice cDNA from callus, XP-002128630	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: AQ688702, 07/02/99, YU, Y. ET AL., A BAC End sequencing framework to sequence the rice genome, XP-002128631	
		SAITO, K., Stress Responses of Photosynthetic organisms, 1998, pgs. 215-226, Molecular Aspects of Sulfur Assimilation and Acclimation to Sulfur Supply in Plants	
		KAZUKI SAITO ET AL., Plant Phys., vol. 106:887-895, 1994, Modulation of Cystine Biosynthesis in Chloroplasts of Transgenic Tobacco Overexpressing Cystine Synthase [O-Acetylserine(thiol)-lyase]	
		KAZUKI SAITO ET AL., Comptes Rendu De L'Academie Des Sciences, vol. 319:969-973, 1996, Molecular characterization of cysteine biosynthetic enzymes in plants	
		YOO, B. ET AL., Plant Phys. suppl., vol. 114:267, 1997, Regulation of recombinant soybean serine acetyltransferase by CDPK	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: p93544, 05-01-97, SAITO, K. ET AL., XP-002128628	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: C26373, 08-06-97, SASAKI, T, Rice cDNA from callus, XP-002128627	
		MICHAEL A. ROBERTS ET AL., Plant Molecular biology, vol. 30:1041-1049, 1996, Cloning and characterisation of an Arabidopsis thaliana cDNA clone encoding an organellar isoform of serine acetyltransferase	
		KAZUKI SAITO ET AL., Journ. of Biol. Chem., vol. 270(27):16321-16326, 1995, Molecular cloning and characterization of a Plant Serine acetyltransferase playing a regulatory role in cystine biosynthesis from watermelon	

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PTB	1	EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D89631, 07-30-97, SCHLBERG, L.E. ET AL., Nucleotide Sequence of a cDNA encoding a Cys proteinase from germinating bean cotyledons, XP-0021299910	✓
	2	EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D49307, 06-01-98, FEDERSPIEL, N.A. ET AL., XP-002129911	✓
	3	EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D25000, 11-30-93, MINOBE, Y. ET AL., Rice cDNA from root, XP-002129912	✓
	4	FRANK W. SMITH ET AL., PNAS, Vol. 92:9373-9377, 9/1995, Plant members of a family of sulfate transporters reveal functional subtypes, XP-002129913	✓
	5	HIDEKI TAKAHASHI ET AL., Plant & Cell Phys., vol. 39 suppl, pp.S148, 1998, Antisense repression of sulfate transporter in transgenic Arabidopsis thaliana plants, XP-002121793	✓
	6	HIDEKI TAKAHASHI ET AL., PNAS, vol. 94:11102-11107, 9/1997, Regulation of sulfur assimilation in higher plants: A sulfate transporter induced in sulfate-starved roots plays a central role in Arabidopsis thaliana	✓
	7	EMBL SEQUENCE LIBRARY DATA ACCESSION NO: X96761, 03-25-97, NG, A. ET AL., Isolation & characterization of a lowly expressed cDNA from the resurrection grass Sporobolus stapifianus with homology to eukaryote sulfate transporter proteins, XP-002121791	✓
	8	EMBL SEQUENCE LIBRARY DATA ACCESSION NO: AF016306, 01-08-1998, BOLCHI, A. ET AL., Coordinate modulation of maize sulfate permease and ATP sulfate permease and ATP sulfurylase mRNAs in response to variations in sulfur nutritional status: stereospecific down-regulation by L-cysteine, XP-002121790	✓
	9	EMBL SEQUENCE DATA LIBRARY ACCESSION NO: C48899, 06-01-1998, BOLCHI, A. ET AL.	✓
	10	FRANK W. SMITH ET AL., The Plant Journal, vol. 12(4):875-884, 1997, Regulation of expression of a cDNA from barley roots encoding a high affinity sulphate transporter, XP-002129909	✓
✓	11	ANTJE PRIOR ET AL., Biochimica et Biophysica Acta, vol. 1430:25-38, 1999, Structural and kinetic properties of adenyllyl sulfate reductase from Catharanthus roseus cell cultures	✓

Examiner Signature	Phuong Bui	Date Considered	12/26/02
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